4/12/10

Your Test is tomorrow. Today we will be doing problems that are just like it.

Solve for x

① $5x - 6 = 19$

$+6 \quad +6$

$\frac{5x}{5} = \frac{25}{5}$

$x = 5$

② $7 - 2x = 35$

$-7 \quad -7$

$\frac{-2x}{-2} = \frac{28}{-2}$

$x = -14$

③ $15 = 3x - 4$

$+4 \quad +4$

$\frac{19}{3} = \frac{3x}{3}$

$x = 6.\overline{33}$

④ $5(x+2) = 30$

$5x + 10 = 30$

$-10 \quad -10$

$\frac{5x}{5} = \frac{20}{5}$

$x = 4$

Solve for x and graph

① $3x + 7 \leq 22$

$-7 \quad -7$

$\frac{3x}{3} \leq \frac{15}{3}$

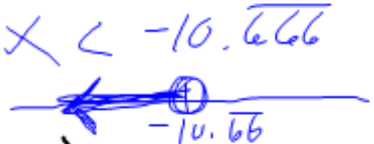
$x \leq 5$

② $8 - 3x > 40$

$-8 \quad -8$

$\frac{-3x}{-3} > \frac{32}{-3}$

$x < -10.\overline{66}$



③ $18 < 6x - 6$

$+6 \quad +6$

$\frac{24}{6} < \frac{6x}{6}$

$4 < x$

④ $3(x - 2) \geq 12$

$3x - 6 \geq 12$

$+6 \quad +6$

$\frac{3x}{3} \geq \frac{18}{3}$

$x \geq 6$

Solve for y

① $3y + 2 = 14$
$-2 \quad -2$

$\frac{3y}{3} = \frac{12}{3}$

$y = 4$

② $3y + 2x = 14$
$-2x \quad -2x$

$\frac{3y}{3} = \frac{14}{3} - \frac{2}{3}x$

$y = 4.\overline{66} - \frac{2}{3}x$

③ $3 + 2y = 8$
$-3 \quad -3$

$\frac{2y}{2} = \frac{5}{2}$

$y = 2.5$

④ $3x + 2y = 8$
$-3x \quad -3x$

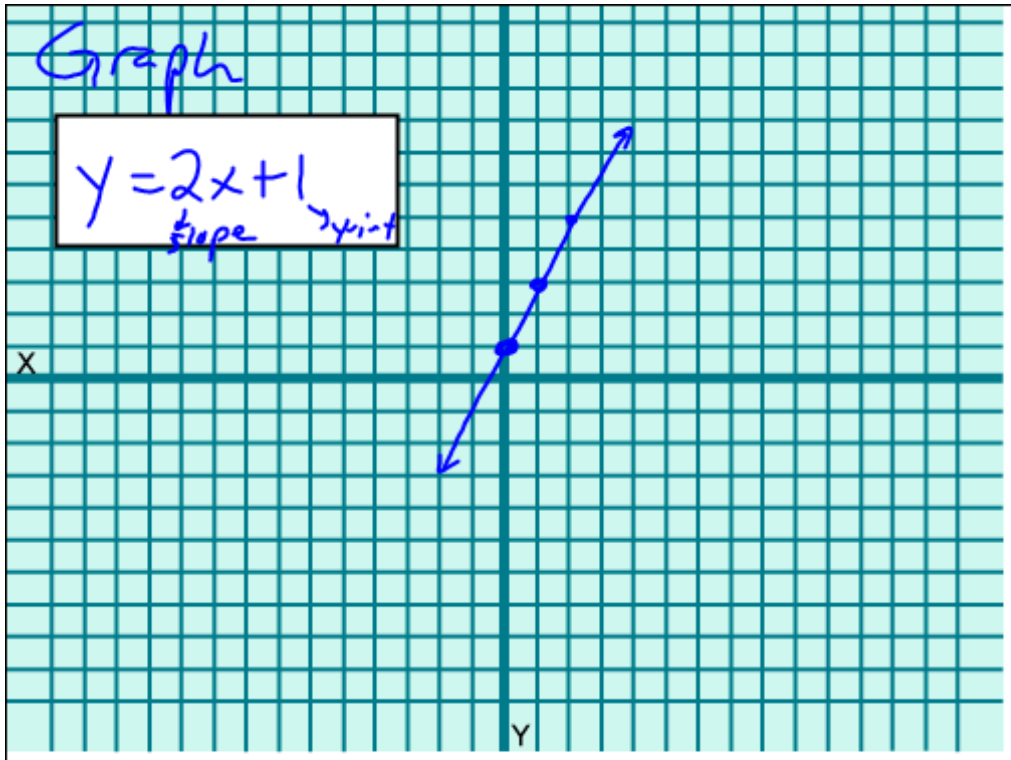
$\frac{2y}{2} = \frac{8}{2} - \frac{3x}{2}$

$y = 4 - \frac{3}{2}x$

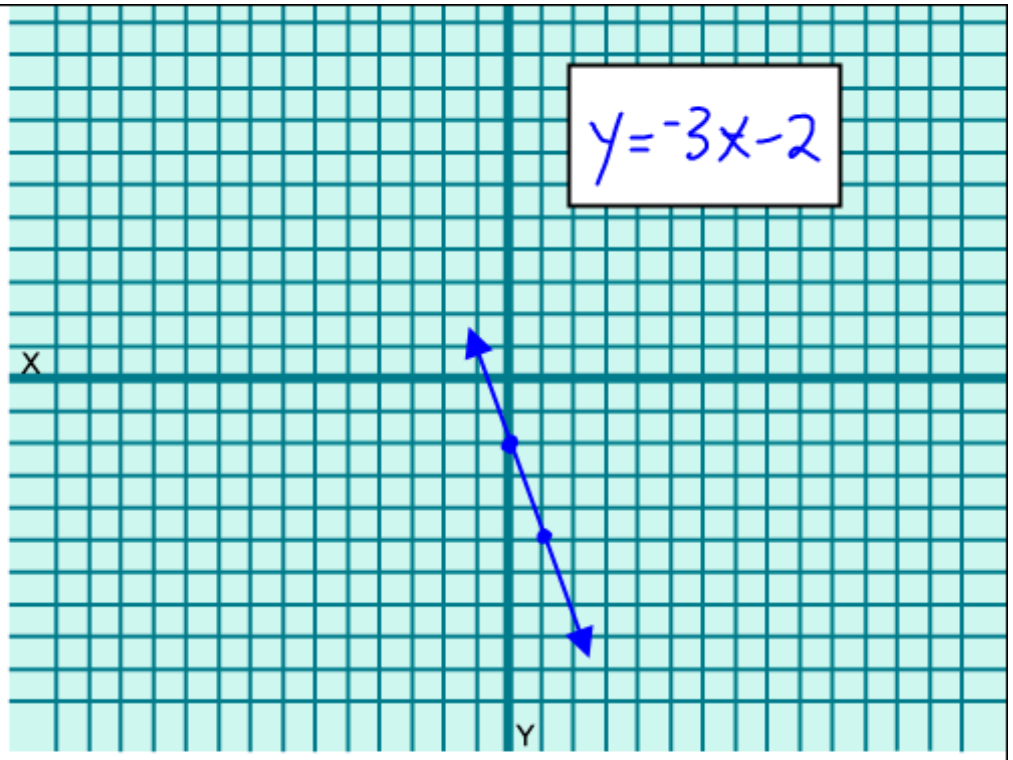
Graph

$y = 2x + 1$

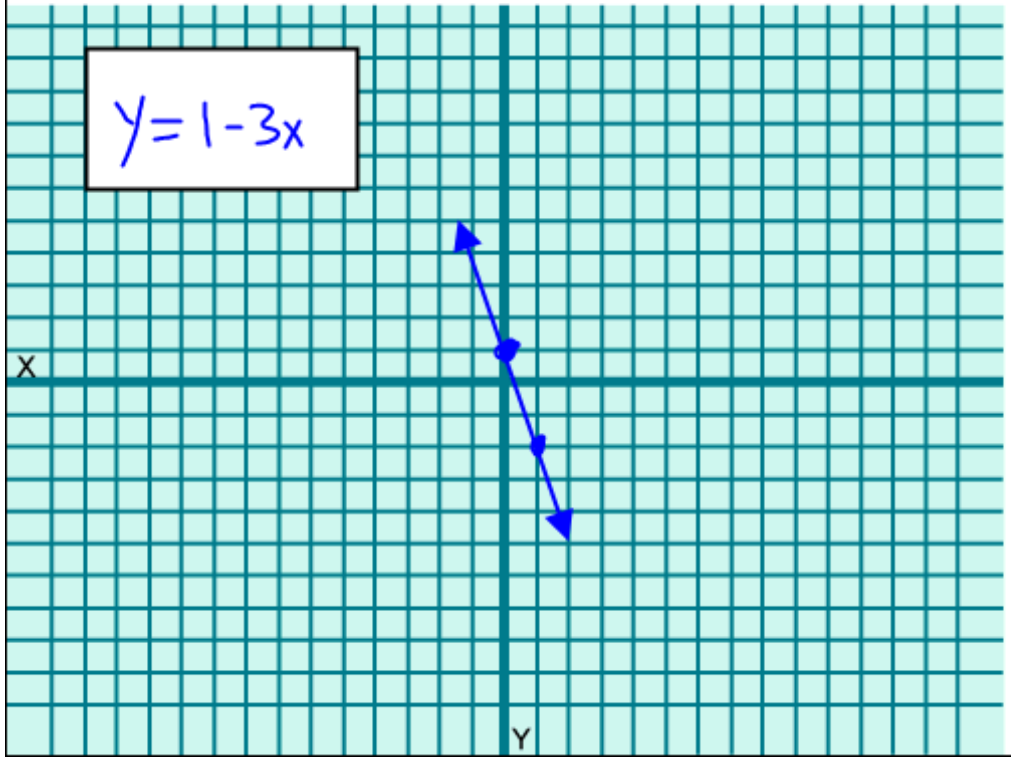
slope → y-int



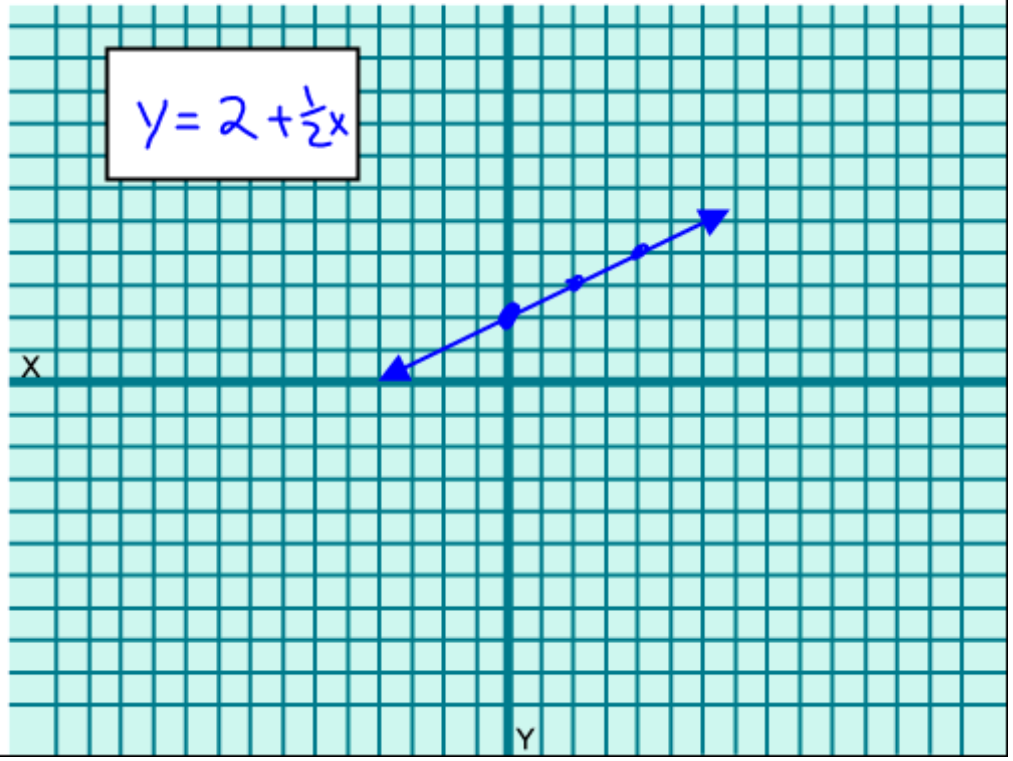
$y = -3x - 2$



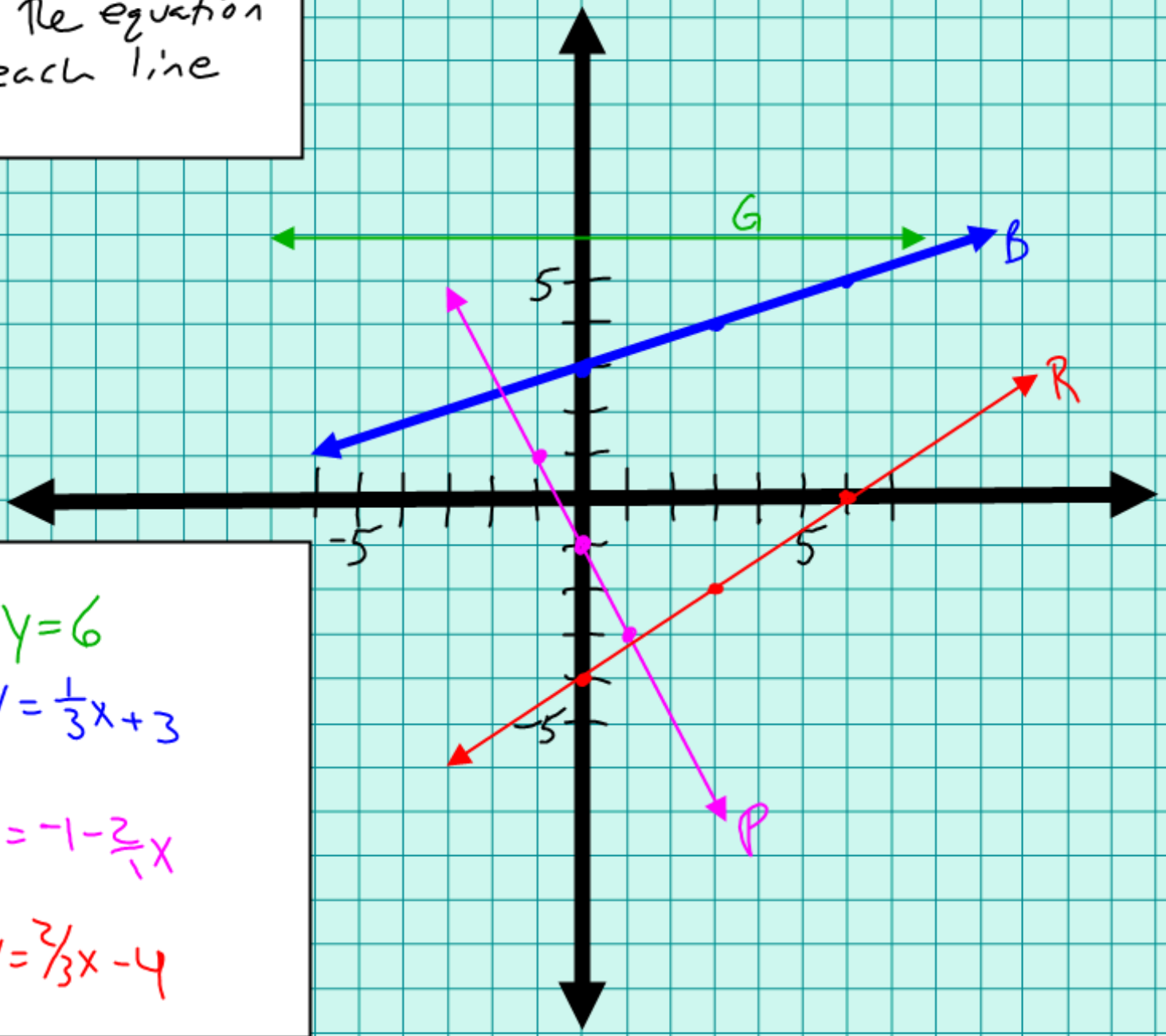
$y = 1 - 3x$



$y = 2 + \frac{1}{2}x$



Find the equation of each line



G: $y = 6$

B: $y = \frac{1}{3}x + 3$

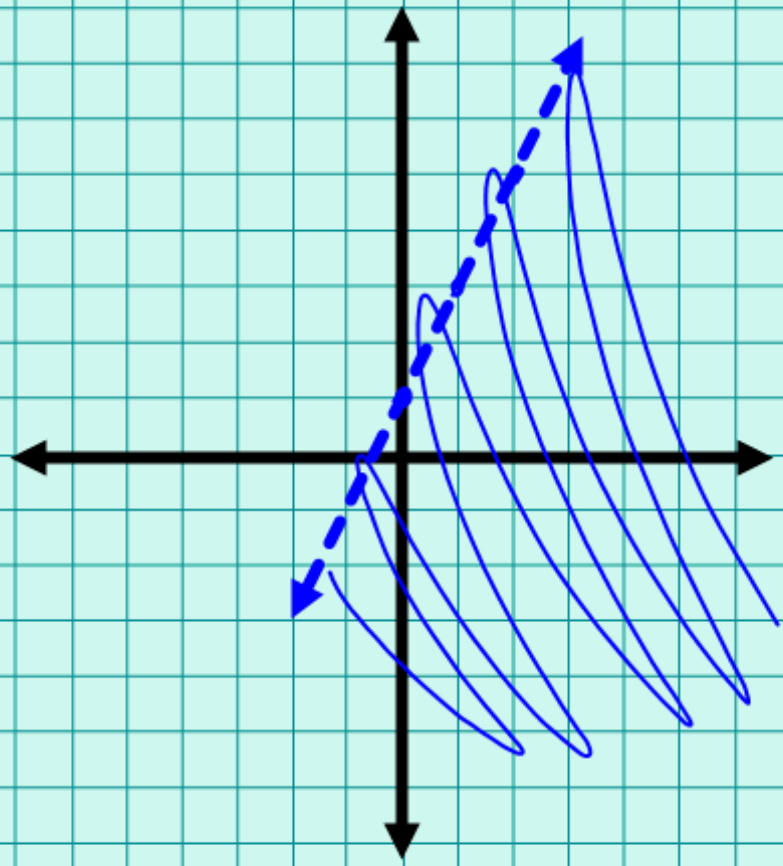
P: $y = -1 - \frac{2}{1}x$

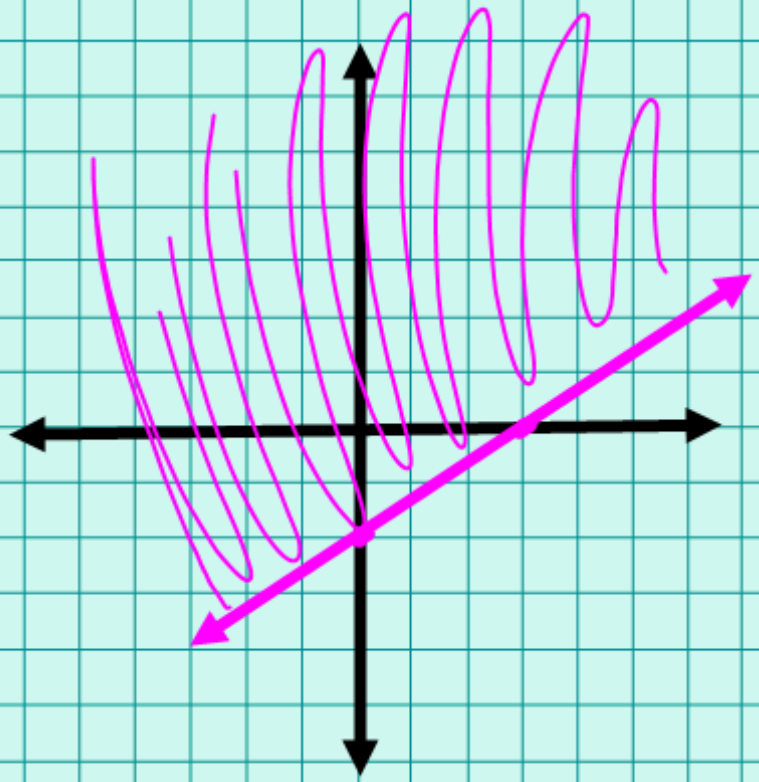
R: $y = \frac{2}{3}x - 4$

Graph

① $y < 2x + 1$

② $y \geq \frac{2}{3}x - 2$





Graph

$$\begin{cases} y \leq 2x + 1 \\ y > -\frac{1}{2}x + 4 \end{cases}$$